

## PCT REQUEST

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<b>0</b>	<b>For receiving Office use only</b>	
<b>0-1</b>	International Application No.	
<b>0-2</b>	International Filing Date	
<b>0-3</b>	Name of receiving Office and "PCT International Application"	
<b>0-4</b>	<b>Form PCT/RO/101 PCT Request</b>	
<b>0-4-1</b>	Prepared Using	PCT-SAFE Version 3.50 (Build 0002.173)
<b>0-5</b>	<b>Petition</b> The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
<b>0-6</b>	Receiving Office (specified by the applicant)	Korean Intellectual Property Office (RO/KR)
<b>0-7</b>	Applicant's or agent's file reference	OF05P320
<b>I</b>	<b>Title of Invention</b>	THE APPARATUS AND METHOD FOR PREPARING SYNTHESIS GAS BY USING BARRIER DISCHARGE REACTION
<b>II</b>	<b>Applicant</b>	
<b>II-1</b>	This person is	applicant only
<b>II-2</b>	Applicant for	all designated States except US
<b>II-4</b>	Name	Korea Institute of Science and Technology
<b>II-5</b>	Address	39-1, Hawolgok-dong, Seongbuk-gu, Seoul, 136-790 Republic of Korea
<b>II-6</b>	State of nationality	KR
<b>II-7</b>	State of residence	KR
<b>II-8</b>	Telephone No.	82-2-725-4774
<b>II-9</b>	Facsimile No.	82-2-722-0747
<b>II-10</b>	e-mail	syk@kc1law.com
<b>II-11</b>	Applicant's registration No. with the Office	3-1998-007751-8

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III-1	<b>Applicant and/or inventor</b>	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	LEE, Hwa Ung
III-1-5	Address	1-1209, Misung Apt., 186-1, Hongeun-dong, Seodaemun-gu, Seoul, 120-100 Republic of Korea
III-1-6	State of nationality	KR
III-1-7	State of residence	KR
III-2	<b>Applicant and/or inventor</b>	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	SONG, Hyung Keun
III-2-5	Address	113-302, LG Xi 1-cha Apt., 873, Sinbong-dong, Yongin-si, Gyeonggi-do, 449-150 Republic of Korea
III-2-6	State of nationality	KR
III-2-7	State of residence	KR
III-3	<b>Applicant and/or inventor</b>	
III-3-1	This person is	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	CHOI, Jae Wook
III-3-5	Address	115-105, Guwoljugong Apt., Guwol 2(i)-dong, Namdong-gu, Incheon, 405-761 Republic of Korea
III-3-6	State of nationality	KR
III-3-7	State of residence	KR

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<b>III-4</b>	<b>Applicant and/or inventor</b>	
III-4-1	This person is	applicant and inventor
III-4-2	Applicant for	US only
III-4-4	Name (LAST, First)	YANG, Gi Seok
III-4-5	Address	314-10, Jugong Apt., 737, Sanggye-dong, Nowon-gu, Seoul, 139-200 Republic of Korea
III-4-6	State of nationality	KR
III-4-7	State of residence	KR
<b>IV-1</b>	<b>Agent or common representative; or address for correspondence</b>	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	KIM, Sun-young
IV-1-2	Address	Korea Coal Center, 10th Floor, 80-6, Susong-Dong, Chongro-Ku, Seoul, 110-727 Republic of Korea
IV-1-3	Telephone No.	82-2-725-4774
IV-1-4	Facsimile No.	82-2-722-0747
IV-1-5	e-mail	syk@kc1law.com
IV-1-6	Agent's registration No.	9-1998-000131-1
<b>V</b>	<b>DESIGNATIONS</b>	
<b>V-1</b>	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
<b>V-2</b>	Item V-2 may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. As to the consequences of such national law provisions in these and certain other States, see Designations in PCT-SAFE Help.	KR

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<b>VI-1</b>	<b>Priority claim of earlier national application</b>		
VI-1-1	Filing date	07 December 2004 (07.12.2004)	
VI-1-2	Number	10-2004-0102655	
VI-1-3	Country	KR	
<b>VI-2</b>	<b>Priority document request</b>		
	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
<b>VII-1</b>	<b>International Searching Authority Chosen</b>	Korean Intellectual Property Office (ISA/KR)	
<b>VIII</b>	<b>Declarations</b>	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
<b>IX</b>	<b>Check list</b>	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	5	✓
IX-2	Description	12	✓
IX-3	Claims	2	✓
IX-4	Abstract	1	✓
IX-5	Drawings	4	✓
IX-7	TOTAL	24	
	<b>Accompanying Items</b>	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	-	✓
IX-9	Original separate power of attorney	-	✓
IX-11	Copy of general power of attorney	-	✓
IX-17	PCT-SAFE physical media	-	-
<b>IX-19</b>	<b>Figure of the drawings which should accompany the abstract</b>	1	
<b>IX-20</b>	<b>Language of filing of the international application</b>	Korean	

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<b>X-1</b>	<b>Signature of applicant, agent or common representative</b>	
<b>X-1-1</b>	<b>Name (LAST, First)</b>	
<b>X-1-2</b>	<b>Name of signatory</b>	
<b>X-1-3</b>	<b>Capacity</b>	

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<b>10-1</b>	<b>Date of actual receipt of the purported international application</b>	
<b>10-2</b>	<b>Drawings:</b>	
<b>10-2-1</b>	<b>Received</b>	
<b>10-2-2</b>	<b>Not received</b>	
<b>10-3</b>	<b>Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application</b>	
<b>10-4</b>	<b>Date of timely receipt of the required corrections under PCT Article 11(2)</b>	
<b>10-5</b>	<b>International Searching Authority</b>	<b>ISA/KR</b>
<b>10-6</b>	<b>Transmittal of search copy delayed until search fee is paid</b>	

**FOR INTERNATIONAL BUREAU USE ONLY**

<b>11-1</b>	<b>Date of receipt of the record copy by the International Bureau</b>	
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**PCT (ANNEX - FEE CALCULATION SHEET)**

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<b>0</b>	<b>For receiving Office use only</b>		
<b>0-1</b>	International Application No.		
<b>0-2</b>	Date stamp of the receiving Office		
<b>0-4</b>	<b>Form PCT/RO/101 (Annex)</b>		
<b>0-4-1</b>	PCT Fee Calculation Sheet Prepared Using	PCT-SAFE Version 3.50 (Build 0002.173)	
<b>0-9</b>	Applicant's or agent's file reference		OF05P320
<b>2</b>	Applicant		KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY
<b>12</b>	<b>Calculation of prescribed fees</b>	fee amount/multiplier	Total amounts (KRW)
<b>12-1</b>	Transmittal fee <b>T</b>	⇒	45000
<b>12-2-1</b>	Search fee <b>S</b>	⇒	225000
<b>12-2-2</b>	International search to be carried out by	KR	
<b>12-3</b>	International filing fee (first 30 sheets) <b>I1</b>	1126000	
<b>12-4</b>	Remaining sheets	0	
<b>12-5</b>	Additional amount <b>(X)</b>	0	
<b>12-6</b>	Total additional amount <b>I2</b>	0	
<b>12-7</b>	<b>I1 + I2 =</b>	1126000	
<b>12-12</b>	Electronic Filing reduction (Full) <b>R</b>	-241000	
<b>12-13</b>	Total International filing fee (I-R) <b>I</b>	⇒	885000
<b>12-14</b>	Fee for priority document		
	Number of priority documents requested	1	
<b>12-15</b>	Fee per document <b>(X)</b>	500	
<b>12-16</b>	Total priority document fee: <b>P</b>	⇒	500
<b>12-17</b>	<b>TOTAL FEES PAYABLE (T+S+I+P)</b>	⇒	1155500
<b>12-19</b>	Mode of payment	cash	

**PCT POWER OF ATTORNEY**

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0-1	PCT Power of Attorney (for an international application filed under the Patent Cooperation Treaty) (PCT Rule 90.4)	
0-1-1	Prepared Using	PCT-SAFE Version 3.50 (Build 0002.173)
1	The undersigned applicant(s)	Korea Institute of Science and Technology; LEE, Hwa Ung; SONG, Hyung Keun; CHOI, Jae Wook; YANG, Gi Seok
1-1-1	hereby appoints (appoint) the following person	KIM, Sun-young Korea Coal Center, 10th Floor, 80-6, Susong-Dong, Chongro-Ku, Seoul, 110-727 Republic of Korea
1-2	as	agent
1-3	to represent the undersigned before	all the competent International Authorities
1-4	In connection with the international application identified below:	
1-4-1	Title of Invention	THE APPARATUS AND METHOD FOR PREPARING SYNTHESIS GAS BY USING BARRIER DISCHARGE REACTION
1-4-2	Applicant's or agent's file reference	OF05P320
1-4-3	International application number (if already available)	
1-4-4	filed with the following Office as receiving Office	Korean Intellectual Property Office (RO/KR)
1-5	and to make or receive payments on behalf of the undersigned	

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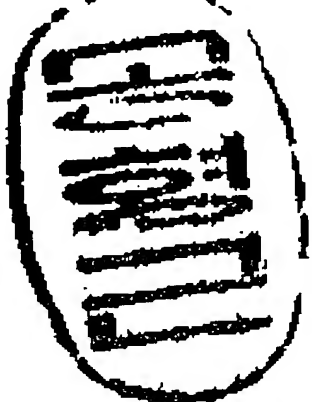

2-1	Signature of applicant, agent or common representative	
2-1-1	Name	Korea Institute of Science and Technology
2-1-2	Name of signatory	Representative
2-1-3	Capacity	KIM, Youseung
2-2	Signature of applicant, agent or common representative	
2-2-1	Name (LAST, First)	LEE, Hwa Ung
2-2-2	Name of signatory	
2-2-3	Capacity	



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2-3	Signature of applicant, agent or common representative	
2-3-1	Name (LAST, First)	SONG, Hyung Keun
2-3-2	Name of signatory	
2-3-3	Capacity	
2-4	Signature of applicant, agent or common representative	
2-4-1	Name (LAST, First)	CHOI, Jae Wook
2-4-2	Name of signatory	
2-4-3	Capacity	

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2-5	Signature of applicant, agent or common representative	
2-5-1	Name (LAST, First)	YANG, Gi Seok
2-5-2	Name of signatory	
2-5-3	Capacity	
3	Date	28 October 2005 (28.10.2005)

# GENERAL POWER OF ATTORNEY

Agent

Name: KIM, Sun-young

Address: Korea Coal Center, 10th Floor, 80-6  
Susong-Dong, Chongro-Ku  
Seoul, 110-727, Republic of Korea

I/We, the undersigned, do hereby appoint the above-identified agent as my/our agent to act for me/us in proceedings concerning all of my/our International Applications.

Date June 17, 2005

Applicant

Name : Korea Institute of Science and Technology  
Representative: KIM, Youseung



Address : 39-1, Hawolgok-dong, Seongbuk-gu, Seoul,  
Republic of Korea

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